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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE APPLICATION NO. 08/05/2003 M0925.70138US00 9369 10/635,240 Yet-Ming Chiang EXAMINER 23628 05/05/2004 WOLF GREENFIELD & SACKS, PC KOSLOW, CAROL M FEDERAL RESERVE PLAZA PAPER NUMBER ART UNIT **600 ATLANTIC AVENUE** BOSTON, MA 02210-2211 1755

DATE MAILED: 05/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/635,240	CHIANG ET AL.
Office Action Summary	Examiner	Art Unit
	C. Melissa Koslow	1755
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thir iod will apply and will expire SIX (6) MON atute, cause the application to become AE	ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on _	·	
2a) This action is FINAL . 2b) T	his action is non-final.	
3) Since this application is in condition for allo	wance except for formal matt	ers, prosecution as to the merits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	0. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-44</u> is/are pending in the applicat	ion.	
4a) Of the above claim(s) is/are without	drawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8)⊠ Claim(s) <u>1-44</u> are subject to restriction and/	or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exam	iner.	
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b) objected to	by the Examiner.
Applicant may not request that any objection to t	• • • • • • • • • • • • • • • • • • • •	` '
Replacement drawing sheet(s) including the con	,	. , .
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents.	ents have been received. ents have been received in A	pplication No
3. Copies of the certified copies of the p		received in this National Stage
application from the International Bur		
* See the attached detailed Office action for a	list of the certified copies not	received.
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) 🗍 Interview S	Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/ Paper No(s)/Mail Date 	08) 5) Notice of Ir 6) Other:	nformal Patent Application (PTO-152)

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-31, 43 and 44, drawn to an electromechanically active material, classified in class 252, subclass 62.9R.
- II. Claim 32, drawn to an electromechanical actuator device comprising a perovskite material having a defined formula, classified in class 310, subclass 311+.
- IIII. Claims 33 and 34, drawn to a method of actuating a tetragonal phase perovskite piezoelectric, classified in class 264, subclass 436.
- IV. Claims 35-38, drawn to a method of preparing a crystallographically oriented array of crystals, classified in class 117, subclass 63.
- V. Claims 39-42, drawn to an electromechanical actuator device where the composition of the electromechanically active material is not defined, classified in class 310, subclass 311+.

The inventions are distinct, each from the other because of the following reasons:

Inventions I (claims 1-15, 18-31, 43 and 44) and II; I and III; I and IV; I and V; II and V; III and IV; III and IV; III and IV; III and V; and IV and V are all unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects.

There is no relationship between the compositions of claims 1-5, 18-31, 43 and 44 and the composition in the device of claim 32. There is no relationship between the materials of claims 1-31, 43 and 44 and the device of claim 32 with the processes and device of claims 33-42,

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since there are no compositions given in claims 33-42. There is no relationship between the method of claims 33-34 and 35-38. There is no relationship between the method of claims 33-34 and the devices of claims 39-42. There is no relationship between the method of claims 33-34 and the devices of claims 41-42. There is no disclosure that the method of claims 35-38 is capable of use with the device of claims 39 and 40 and they have different functions and effects.

Inventions II and I (claims 16-18) are related as combination and subcombination.

Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the material of the subcombination is boarder in scope than the material is the combination. The subcombination has separate utility such as a methane conversion catalyst.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

A telephone call was made to T. Oyer on 7 April 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa Koslow whose telephone number is (571) 272-1371. The examiner can normally be reached on Monday-Friday from 8:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell, can be reached at (571) 272-1362.

The fax number for all official communications is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cmk April 9, 2004 C. Melissa Koslow Primary Examiner Tech. Center 1700